PATENT COOPERATION TREATY

From the

INTERNATIONAL SEARCHING AUTHORITY

To: PAIK, Nam-Hoon			PCT
14th Fl., KTB Network Bldg., 826-14, Yeoksam-dong, Kangnam-ku Seoul 135-769 Republic of Korea		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)	
		Date of mailing (day/month/year) 2	7 APRIL 2005 (27.04.2005)
Applicant's or agent's file reference 232		FOR FURTHER AC	CTION ee paragraph 2 below
PCT/KR2004/003287 14	mational filing date (DECEMBER 20	1 (day/month/year) 104 (14.12.2004)	Priority date(day/month/year) 18 FEBRUARY 2004 (18.02.2004)
International Patent Classification (IPC) or bo IPC7 H01B 3/30, C08G 77/04 Applicant SOGANG UNIVERSITY CORPOR		ion and IPC	
Box No. IV Lack of unity of inv	of opinion with regard vention under Rule 43bis.1(a) tions supporting such cited the international application on the international account of the international account ("IPEA") except thosen IPEA has notification in the solution of the solution of the solution in the solution is made.	to novelty, inventive sol(i) with regard to nove a statement eation application this opinion will be conthat this does not applified the International B considered.	y where the applicant chooses an Authority tureau under Rule 66. Ibis(b) that written
IPEA a written reply together, where appropriate of Form PCT/ISA/220 or before the expirate For further options, see Form PCT/ISA/220. 3. For further details, see notes to Form PCT/I	priate, with amendme ion of 22 months from).	ents, before the expirati	on of 3 months from the date of mailing
Name and mailing address of the ISA KR Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon	:	Authorized officer KIM, Seumy Soo	
Republic of Korea Facsimile No. 82-42-472-7140		l elephone No. 82-42-	IS1-5581

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2004/003287

Box No. I Basis of this opinion	
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 With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. 	
This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).	
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:	
a. type of material	
a sequence listing	
table(s) related to the sequence listing	
b. format of material in wirtten format	
in computer readable form	
in computer readable form	
c. time of filing/furnishing	
contained in the international application as filed.	
filed together with the international application in computer readable form.	
furnished subsequently to this Authority for the purposes of search.	
3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additioanl copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.	
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4. Additional comments:	
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International application No.

PCT/KR2004/003287

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

Statement		
Novelty (N)	Claims 1-10	YES
	Claims	NO
Inventive step (IS)	Claims 1-10	YES
	Claims	NO
Industrial applicability (IA)	Claims 1-10	YES
	Claims	NO

2. Citations and explanations:

Reference is made to the following documents:

D1) US 2003-55134 A

D2) US 2003-65123 A

D3) US 6632748 B

D4) KR 2003-24002 A

I-Novelty:

Claim 1 of the present invention is concerned with a template for producing nano-pores of cyclodextrin derivatives shown in chemical formula 1. In particular, the cyclodextrin derivatives as porogen have C_{1-6} trialkoxysilane groups. Although D1-D4 cited in the international search report discloses cyclodextrin derivatives as porogen, cyclodextrin derivatives C_{1-6} trialkoxysilane groups are not described in D1-D4. Accordingly, the subject matter of claim 1 seems to be novel.(PCT Article 33(2)). And also, independent claims 3, 4, 6 and 10 also have novelty as they include a novel element of claim 1. In addition, claims 2, 5, 7-9 comply with PCT Article 33(2) as they are dependent claims.

II-Inventive step:

1) Concerning claims 1, 3, 4, 6, 10 (Independent claims)

The references D1-D4 do not disclose cyclodextrin derivatives with C_{1-6} trialkoxysilane groups as porogen. In addition, it is not obvious from the references D1-D4 by the skilled person in the art. Consequently, there is no suggestion in any of the references, either alone or in combination, which would lead to the solution posed by the present invention. Therefore, claims 1, 3, 4, 6 and 10 of the present invention meet the criteria set out in PCT Article 33(3).

2) Concerning claims 2. 5. 7-9 (dependent claims) Claims 2. 5. and 7-9 also comply with PCT Article 33(3) as they are dependent claims.

Claims 1 to 10 meet the criteria set out in PCT Article 33(4), because they are directed to an industrially applicable low dielectric insulating film required for semiconductor devices.